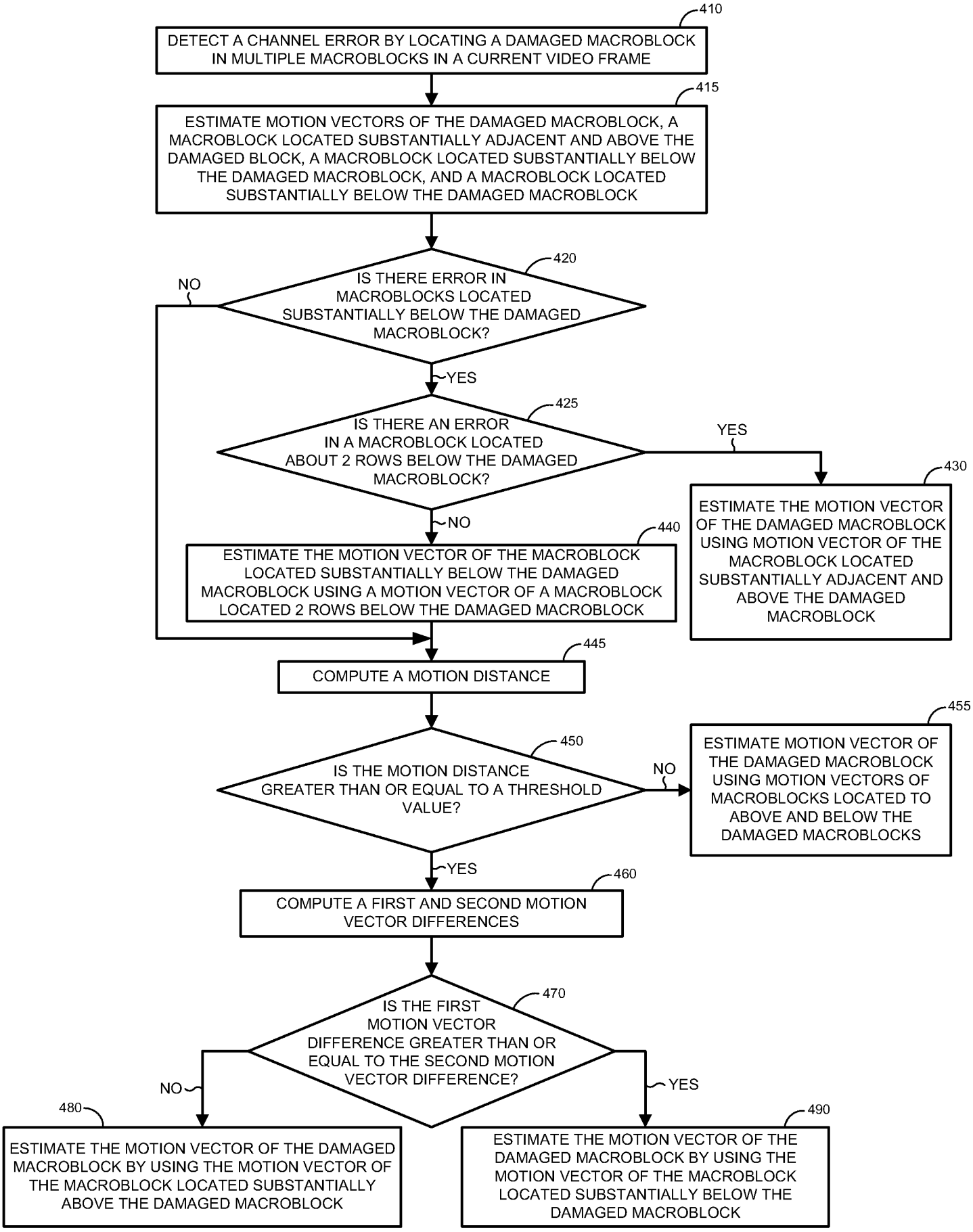
410
DETECT A CHANNEL ERROR BY LOCATING A DAMAGED MACROBLOCK IN MULTIPLE MACROBLOCKS IN A CURRENT VIDEO FRAME
415
ESTIMATE MOTION VECTORS OF THE DAMAGED MACROBLOCK, A MACROBLOCK LOCATED SUBSTANTIALLY ADJACENT AND ABOVE THE DAMAGED BLOCK, A MACROBLOCK LOCATED SUBSTANTIALLY BELOW THE DAMAGED MACROBLOCK, AND A MACROBLOCK LOCATED SUBSTANTIALLY BELOW THE DAMAGED MACROBLOCK
420
IS THERE ERROR IN MACROBLOCKS LOCATED SUBSTANTIALLY BELOW THE DAMAGED MACROBLOCK?
NO
YES
425
IS THERE AN ERROR IN A MACROBLOCK LOCATED ABOUT 2 ROWS BELOW THE DAMAGED MACROBLOCK?
YES
430
ESTIMATE THE MOTION VECTOR OF THE DAMAGED MACROBLOCK USING MOTION VECTOR OF THE MACROBLOCK LOCATED SUBSTANTIALLY ADJACENT AND ABOVE THE DAMAGED MACROBLOCK
NO
440
ESTIMATE THE MOTION VECTOR OF THE MACROBLOCK LOCATED SUBSTANTIALLY BELOW THE DAMAGED MACROBLOCK USING A MOTION VECTOR OF A MACROBLOCK LOCATED 2 ROWS BELOW THE DAMAGED MACROBLOCK
445
COMPUTE A MOTION DISTANCE
450
IS THE MOTION DISTANCE GREATER THAN OR EQUAL TO A THRESHOLD VALUE?
NO
455
ESTIMATE MOTION VECTOR OF THE DAMAGED MACROBLOCK USING MOTION VECTORS OF MACROBLOCKS LOCATED TO ABOVE AND BELOW THE DAMAGED MACROBLOCKS
YES
460
COMPUTE A FIRST AND SECOND MOTION VECTOR DIFFERENCES
470
IS THE FIRST MOTION VECTOR DIFFERENCE GREATER THAN OR EQUAL TO THE SECOND MOTION VECTOR DIFFERENCE?
NO
YES
480
ESTIMATE THE MOTION VECTOR OF THE DAMAGED MACROBLOCK BY USING THE MOTION VECTOR OF THE MACROBLOCK LOCATED SUBSTANTIALLY ABOVE THE DAMAGED MACROBLOCK
490
ESTIMATE THE MOTION VECTOR OF THE DAMAGED MACROBLOCK BY USING THE MOTION VECTOR OF THE MACROBLOCK LOCATED SUBSTANTIALLY BELOW THE DAMAGED MACROBLOCK

FIG. 4